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IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application:

LISTING OF CLAIMS:

 (Currently Amended) A data storage device, the device comprising: more than two disk drives having platter sizes less than 3.5 inches in diameter; and

a controller that accesses the disk drives in response to received I/O requests, where said controller simultaneously performs at least a part of at least two write operations onto said more than two disk drives in response to at least two different write requests, wherein the controller is configured to implement a RAID scheme, and wherein the RAID scheme is independent of a hierarchically higher RAID controller that sends the data storage device RAID data.

- 2. (Previously Presented) The data storage device of claim 1, further comprising a device interface to receive I/O requests, wherein the device interface comprises an interface configured to conform to a protocol.
- (Previously Presented) The data storage device of claim 2, wherein the protocol comprises at least one of the following: SCSI (Small Computer System Interface), Fibre Channel, and INFINIBAND.
- 4. (Original) The data storage device of claim 1, wherein the platter sizes comprise platters of at least one of the following sizes: 2.5 inches, 1.8 inches, and 1 inch.
- 5. (Previously Presented) The data storage device of claim 4, wherein at least one of the disk drives comprises an IDE (Integrated Disk Electronics) drive.

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- 6. (Original) The data storage device of claim 1, wherein the more than two disk drives having platter sizes less than 3.5 inches in diameter comprise more than two disk having platter sizes 2.5 inches or less in diameter.
- 7. (Original) The data storage device of claim 1, wherein the more than two disk drives having platter sizes less than 3.5 inches in diameter comprise more than two disk drives having platter sizes one inch in diameter or less.
- 8. (Original) The data storage device of claim 1, further comprising a housing.
- 9. (Original) The data storage device of claim 8, wherein the housing has one of the following form factors: standard, half-height, and low-profile.

Claims 10-11. (Canceled)

- 12. (Currently Amended) The data storage device of claim 44 1, wherein the RAID data comprises at least one of: a stripe, an error detection code, and an error correction code.
- 13. (Previously Presented) The data storage device of claim 1, wherein said data storage device is configured to perform cache operations, said data storage device further comprising a cache manager.
- 14. (Original) The data storage device of claim 13, wherein the cache manager comprises a manager configured to perform at least one of the following: translate an address of a different storage device to a cache address; cache data included in a write request; load data from the different storage device; and remove cache data.

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- 15. (Previously Presented) The data storage device of claim 1, further comprising a controller card that includes the controller and connections available to couple with more than one storage card that provides access to a least two of the disk drives.
- 16. (Previously Presented) The data storage device of claim 15, wherein the storage card comprises a card having at least one parallel interface to a collection of the disk drives.
- 17. (Previously Presented) The data storage device of claim 15, wherein the drives comprise IDE (Integrated Disk Electronics) disk drives.
- 18. (Original) The data storage device of claim 15, wherein the connection between the controller and the storage card comprises a serial connection.
- 19. (Previously Presented) The data storage device of claim 15, wherein the controller comprises a bank interface that routes data requests to the appropriate bank of disk drives.
- 20. (Currently Amended) A data storage system, the system comprising: at least one first data storage device having a platter size of at lest 3.5 inches in diameter;

at least one second data storage device comprising:

a device interface for receiving input/output (I/O) requests; a first controller configured to receive I/O requests from the interface; and

more than two disk drives coupled to the controller, the disk drives having platter sizes less than 3.5 inches in diameter, where said first controller simultaneously performs at least a part of at least two write operations onto said more than two disk drives in

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response to at least two different write requests, wherein the controller is configured to implement a RAID scheme, and wherein the RAID scheme is independent of a hierarchically higher RAID controller that sends the data storage device RAID data; and

a second controller, configured as the hierarchically higher RAID controller, that coordinates data access to the at least one first data storage device and the at least one second data storage device.

Claim 21. (Canceled)

- 22. (Original) The data storage system of claim 20, wherein the platter sizes less than 3.5 inches in diameter comprise platters of at least one of the following sizes: 2.5 inches, 1.8 inches, and 1 inch.
- 23. (Previously Presented) The data storage system of claim 20, wherein the drives having platter sizes less than 3.5 inches comprise IDE (Integrated Disk Electronics) disk drives.
- 24. (Currently Amended) A method of servicing input/output (I/O) data access requests at a data storage device, the method comprising:

receiving I/O requests at a device interface of the data storage device, wherein receiving an I/O request comprises receiving an I/O request from a hierarchically higher RAID controller;

accessing more than two disk drives having platter sizes less than 3.5 inches in diameter in response to received I/O requests, wherein accessing the more than two disks comprises accessing the more than two disks in accordance with a RAID scheme; and

simultaneously performing at least a part of at least two write operations onto the more than two disk drives in response to at least two different write requests.

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- 25. (Previously Presented) The method of claim 24, further comprising: receiving I/O requests at a device interface of the data storage device, wherein the device interface comprises an interface configured to conform to a protocol.
- 26. (Previously Presented) The method of claim 25, wherein the protocol comprises at least one of the following: SCSI (Small Computer System Interface), fibre channel, and INFINIBAND.
- 27. (Original) The method of claim 24, wherein the platter sizes comprise platters of at least one of the following sizes: 2.5 inches, 1.8 inches, and 1 inch.

Claims 28-29. (Canceled)